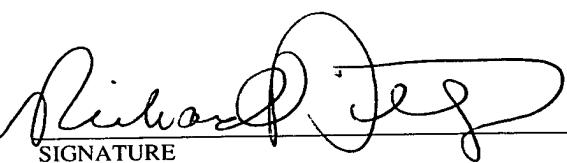
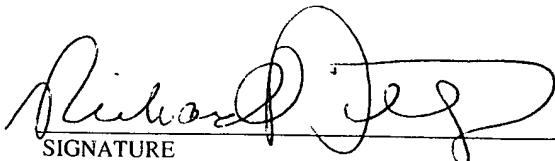


DO/EO Rec'd PCT/PTO 11 MAR 2005

U. S. PATENT AND TRADEMARK OFFICE U.S. DEPARTMENT OF COMMERCE		ATTORNEY'S DOCKET NUMBER 21163P
<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371</b>		U.S. APPLICATION NO. (If known, see 37 CFR 1.5) <b>10/527762</b>
INTERNATIONAL APPLICATION NO. PCT/US03/28033	INTERNATIONAL FILING DATE 8 September 2003	PRIORITY DATE CLAIMED 12 September 2002
TITLE OF INVENTION SUBSTITUTED BICYCLIC THIOPHENE DERIVATIVES, COMPOSITIONS CONTAINING SUCH COMPOUNDS AND METHODS OF USE		
APPLICANT(S) FOR DO/EO/US Joseph Duffy, Elizabeth Louise Campbell, Rui Liang, Zenon Konteatis		
<b>Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:</b>		
<ol style="list-style-type: none"><li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</li><li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</li><li>3. <input type="checkbox"/> This is an express request to begin national examination procedures [35 U.S.C. 371(f)]. The submission must include items (5), (6), (9) and (21) indicated below.</li><li>4. <input checked="" type="checkbox"/> The US has been elected (PCT Article 31).</li><li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed [35 U.S.C. 371(c)(2)]<ol style="list-style-type: none"><li>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li><li>b. <input type="checkbox"/> has been communicated by the International Bureau.</li><li>c. <input checked="" type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li></ol></li><li>6. <input type="checkbox"/> An English language translation of the International Application as filed [35 U.S.C. 371(c)(2)].<ol style="list-style-type: none"><li>a. <input type="checkbox"/> is attached hereto</li><li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li></ol></li><li>7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 [35 U.S.C. 371(c)(3)].<ol style="list-style-type: none"><li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li><li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li><li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li><li>d. <input type="checkbox"/> have not been made and will not be made.</li></ol></li><li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 [35 U.S.C. 371(c)(3)].</li><li>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) [35 U.S.C. 371(c)(4)].</li><li>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 [35 U.S.C. 371(c)(5)].</li></ol>		
<b>Items 11 to 20 below concern other document(s) or information included:</b>		
<ol style="list-style-type: none"><li>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li><li>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li><li>13. <input type="checkbox"/> A preliminary amendment.</li><li>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</li><li>15. <input type="checkbox"/> A substitute specification.</li><li>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</li><li>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.</li><li>18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C.154(d)(4).</li><li>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C.154(d)(4). <b>EXRESS MAIL</b></li><li>20. <input type="checkbox"/> Other items or information:  <b>DATE OF DEPOSIT</b> <u>March 11, 2005</u> <b>EXPRESS MAIL NO.</b> <u>EV 421342001US</u> <b>I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS</b> <b>BEING DEPOSITED WITH THE UNITED STATES POSTAL</b> <b>SERVICE AS EXPRESS MAIL "POST OFFICE TO ADDRESSEE"</b> <b>ON THE ABOVE DATE IN AN ENVELOPE ADDRESSED TO</b> <b>COMMISSIONER FOR PATENTS, P.O. BOX 1450,</b> <b>ALEXANDRIA, VIRGINIA 22313-1450.</b></li></ol>		

DT19 Rec'd PCT/PTO 11 MAR 2005

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)		INTERNATIONAL APPLICATION NO.	ATTORNEY'S DOCKET NUMBER		
<b>10/527762</b>		PCT/US03/28033	21163P		
The following fees are submitted:				CALCULATIONS	PTO USE ONLY
21. <input checked="" type="checkbox"/> Basic national fee.....				\$300	\$300.00
22. <input checked="" type="checkbox"/> Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4).....				\$100	
All other situations.....				\$200	\$100.00
23. <input checked="" type="checkbox"/> Search fee Search fee [37 CFR 1.445(a)(2)] has been paid on the international application to the USPTO as an International Searching Authority.....				\$100	
International Search Report prepared and provided to the Office.....				\$400	
All other situations.....				\$500	\$100.00
				<b>TOTAL OF 21, 22 and 23=</b>	<b>\$500.00</b>
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)		RATE	
47 - 100 =	0 /50	0 = 0		X \$250.00	\$0.00
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date [37 CFR 1.492(e)].					
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
Total Claims	15 - 20 =	0	X \$50.00	\$0.00	
Independent Claims	2 - 3 =	0	X \$200.00	\$0.00	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)				+ \$360.00	
				<b>TOTAL OF ABOVE CALCULATIONS (SUBTOTAL)</b>	<b>= \$500.00</b>
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date [37 CFR 1.492(f)].				+ \$500.00	
				<b>TOTAL NATIONAL FEE</b>	<b>= \$500.00</b>
Fee for recording the enclosed assignment [37 CFR 1.21(h)]. The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property.				+ \$40.00	
				<b>TOTAL FEES ENCLOSED</b>	<b>= \$500.00</b>
				Amount to be refunded:	
				Amount to be charged:	
a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed.					
b. <input checked="" type="checkbox"/> Please charge my Deposit Account No. <u>13-2755</u> in the amount of <u>\$500.00</u> to cover the above fees. A duplicate copy of this sheet is enclosed.					
c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to the Deposit Account No. <u>13-2755</u> . A duplicate copy of this sheet is enclosed.					
NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive [37 CFR 1.137(a) or (b)] must be filed and granted to restore the International Application to pending status.					
SEND ALL CORRESPONDENCE TO:					
Customer No. <u>000210</u>					
MERCK & CO., INC. Patent Department, RY60-30 P.O. Box 2000 126 East Lincoln Avenue Rahway, New Jersey 07065-0970					
 <u>Richard C. Billups</u> NAME					
DATE: <u>March 11, 2005</u>					
PHONE #: <u>(732) 594-4683</u>					
31,916					
REGISTRATION NUMBER					

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)	INTERNATIONAL APPLICATION NO.	ATTORNEY'S DOCKET NUMBER	
<b>10/527762</b>	PCT/US03/28033	21163P	
The following fees are submitted:		CALCULATIONS PTO USE ONLY	
21. <input checked="" type="checkbox"/> Basic national fee.....\$300		\$300.00	
22. <input checked="" type="checkbox"/> Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4). .... \$100 All other situations.....\$200			
23. <input checked="" type="checkbox"/> Search fee Search fee [37 CFR 1.445(a)(2)] has been paid on the international application to the USPTO as an International Searching Authority.....\$100 International Search Report prepared and provided to the Office.....\$400 All other situations.....\$500		\$100.00	
		<b>TOTAL OF 21, 22 and 23=</b>	
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.		\$500.00	
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE
47 - 100 =	0 /50	0 = 0	X \$250.00
			\$0.00
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date [37 CFR 1.492(e)].			
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE
Total Claims	15 - 20 =	0	X \$50.00
Independent Claims	2 - 3 =	0	X \$200.00
MULTIPLE DEPENDENT CLAIM(S) (if applicable)		+ \$360.00	
		<b>TOTAL OF ABOVE CALCULATIONS (SUBTOTAL)</b>	= \$500.00
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).			
		+ \$500.00	
Fee for recording the enclosed assignment [37 CFR 1.21(h)]. The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property.		+ \$40.00	
		<b>TOTAL FEES ENCLOSED</b>	= \$500.00
		Amount to be refunded:	
		Amount to be charged:	
a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed. b. <input checked="" type="checkbox"/> Please charge my Deposit Account No. <u>13-2755</u> in the amount of <u>\$500.00</u> to cover the above fees. A duplicate copy of this sheet is enclosed. c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to the Deposit Account No. <u>13-2755</u> . A duplicate copy of this sheet is enclosed.			
<i>Adjustment Date: 07/15/2005 PROKER</i> No 07/16/2005 REOPENED 07/16/2005 until 10527762 37 CFR 1.494 or 1.495 has not been met. PROKER refiled and charged to restore the International Application to pending status. Ref: 00000094 DA: 132755 10527762 01 FC:2643 50.00 DA			
SEND ALL CORRESPONDENCE TO:			
Customer No. <u>000210</u> MERCK & CO., INC. Patent Department, RY60-30 P.O. Box 2000 126 East Lincoln Avenue Rahway, New Jersey 07065-0970			
 SIGNATURE Richard C. Billups NAME			
DATE: <u>March 11, 2005</u>			
PHONE #: <u>(732) 594-4683</u>			
<b>Best Available Cop</b>			